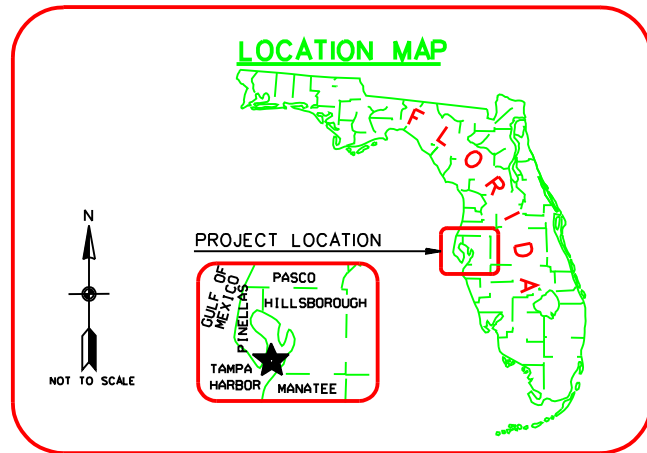


TAMPA HARBOR, FLORIDA LOWER TAMPA BAY PROJECT CONDITION SURVEY



SURVEY NOTES:

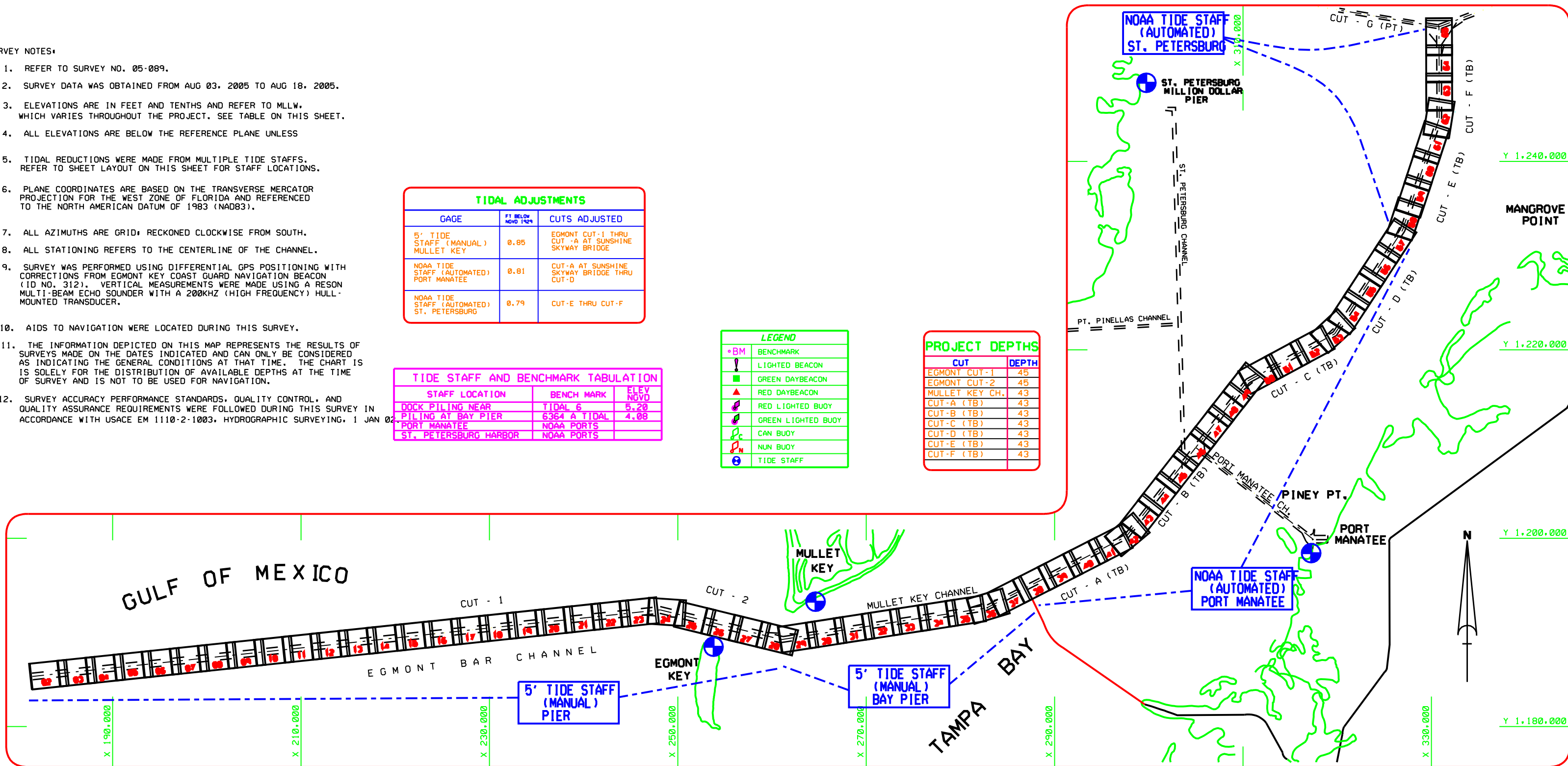
1. REFER TO SURVEY NO. 05-089.
2. SURVEY DATA WAS OBTAINED FROM AUG 03, 2005 TO AUG 18, 2005.
3. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO MLLW, WHICH VARIES THROUGHOUT THE PROJECT. SEE TABLE ON THIS SHEET.
4. ALL ELEVATIONS ARE BELOW THE REFERENCE PLANE UNLESS
5. TIDAL REDUCTIONS WERE MADE FROM MULTIPLE TIDE STAFFS. REFER TO SHEET LAYOUT ON THIS SHEET FOR STAFF LOCATIONS.
6. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE WEST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
7. ALL AZIMUTHS ARE GRID* RECKONED CLOCKWISE FROM SOUTH.
8. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
9. SURVEY WAS PERFORMED USING DIFFERENTIAL GPS POSITIONING WITH CORRECTIONS FROM EGMONT KEY COAST GUARD NAVIGATION BEACON (ID NO. 312). VERTICAL MEASUREMENTS WERE MADE USING A RESON MULTI-BEAM ECHO SOUNDER WITH A 200KHZ (HIGH FREQUENCY) HULL-MOUNTED TRANSDUCER.
10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THE CHART IS IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
12. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02

TIDAL ADJUSTMENTS		
GAGE	FT. BELOW MLLW	CUTS ADJUSTED
5' TIDE STAFF (MANUAL) MULLETT KEY	0.85	EGMONT CUT-1 THRU CUT -A AT SUNSHINE SKYWAY BRIDGE
NOAA TIDE STAFF (AUTOMATED) PORT MANATEE	0.81	CUT-A AT SUNSHINE SKYWAY BRIDGE THRU CUT-D
NOAA TIDE STAFF (AUTOMATED) ST. PETERSBURG	0.79	CUT-E THRU CUT-F

TIDE STAFF AND BENCHMARK TABULATION		
STAFF LOCATION	BENCH MARK	ELEV MLLW
DOCK PILING NEAR	TIDAL 6	5.20
PILING AT BAY PIER	6364 A TIDAL	4.08
PORT MANATEE	NOAA PORTS	
ST. PETERSBURG HARBOR	NOAA PORTS	

LEGEND	
BM	BENCHMARK
Lighted Beacon	LIGHTED BEACON
Green Day Beacon	GREEN DAY BEACON
Red Day Beacon	RED DAY BEACON
Red Lighted Buoy	RED LIGHTED BUOY
Green Lighted Buoy	GREEN LIGHTED BUOY
Can Buoy	CAN BUOY
Nun Buoy	NUN BUOY
Tide Staff	TIDE STAFF

PROJECT DEPTHS	
CUT	DEPTH
EGMONT CUT-1	45
EGMONT CUT-2	45
MULLETT KEY CH.	43
CUT-A (TB)	43
CUT-B (TB)	43
CUT-C (TB)	43
CUT-D (TB)	43
CUT-E (TB)	43
CUT-F (TB)	43



GRAPHIC SCALE
5000' 0 5000' 10000'

US Army Corps
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Jacksonville District
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ENGINEERS
JACKSONVILLE, FLORIDA

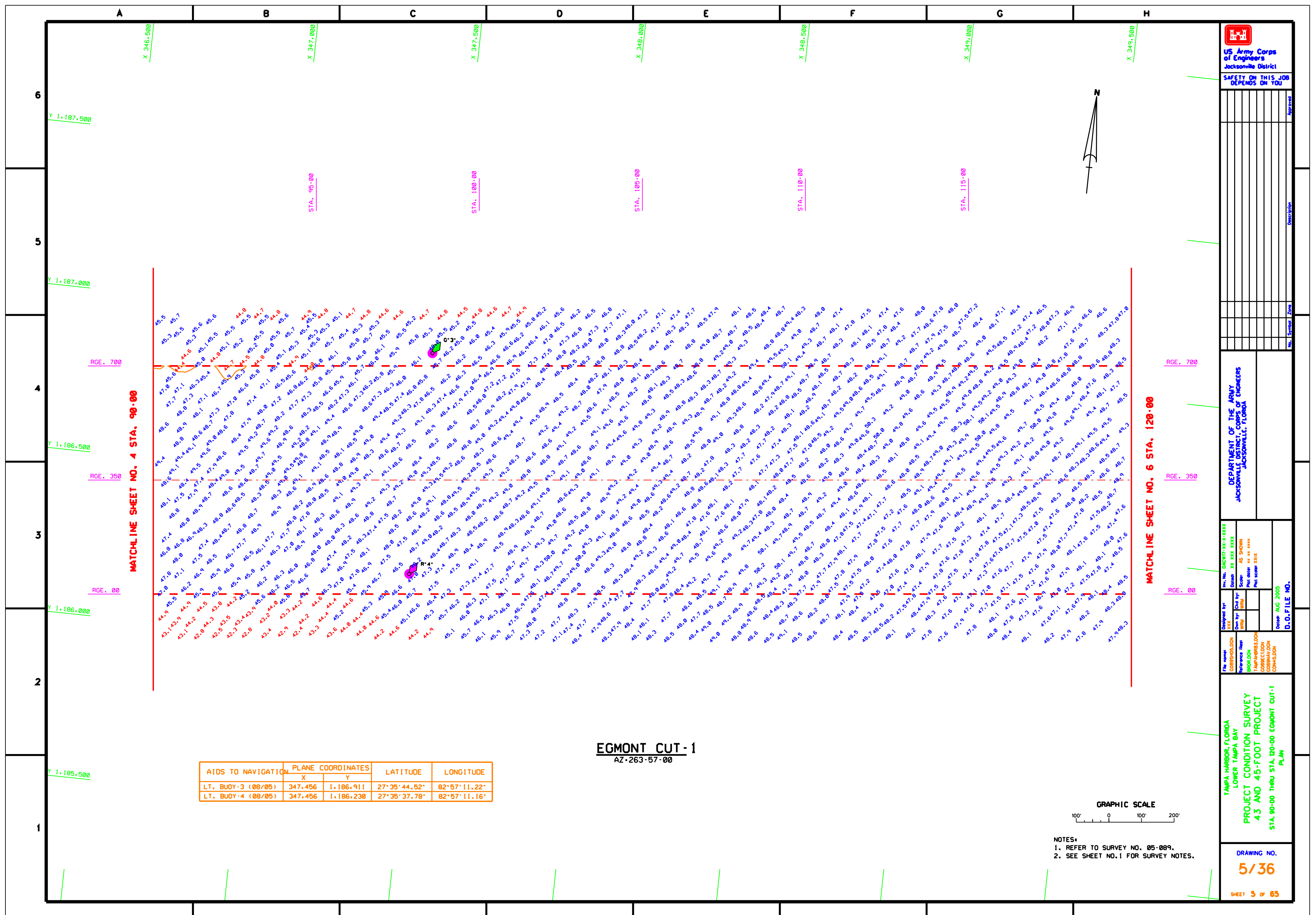
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Checked by: JAC/05-12-1-0000
Scale: AS SHOWN
Plot Date: 08-18-05
Plot Scale: 1:10000

Designed by: JAC/05-12-1-0000
Drawn by: JAC/05-12-1-0000
Reference: JAC/05-12-1-0000

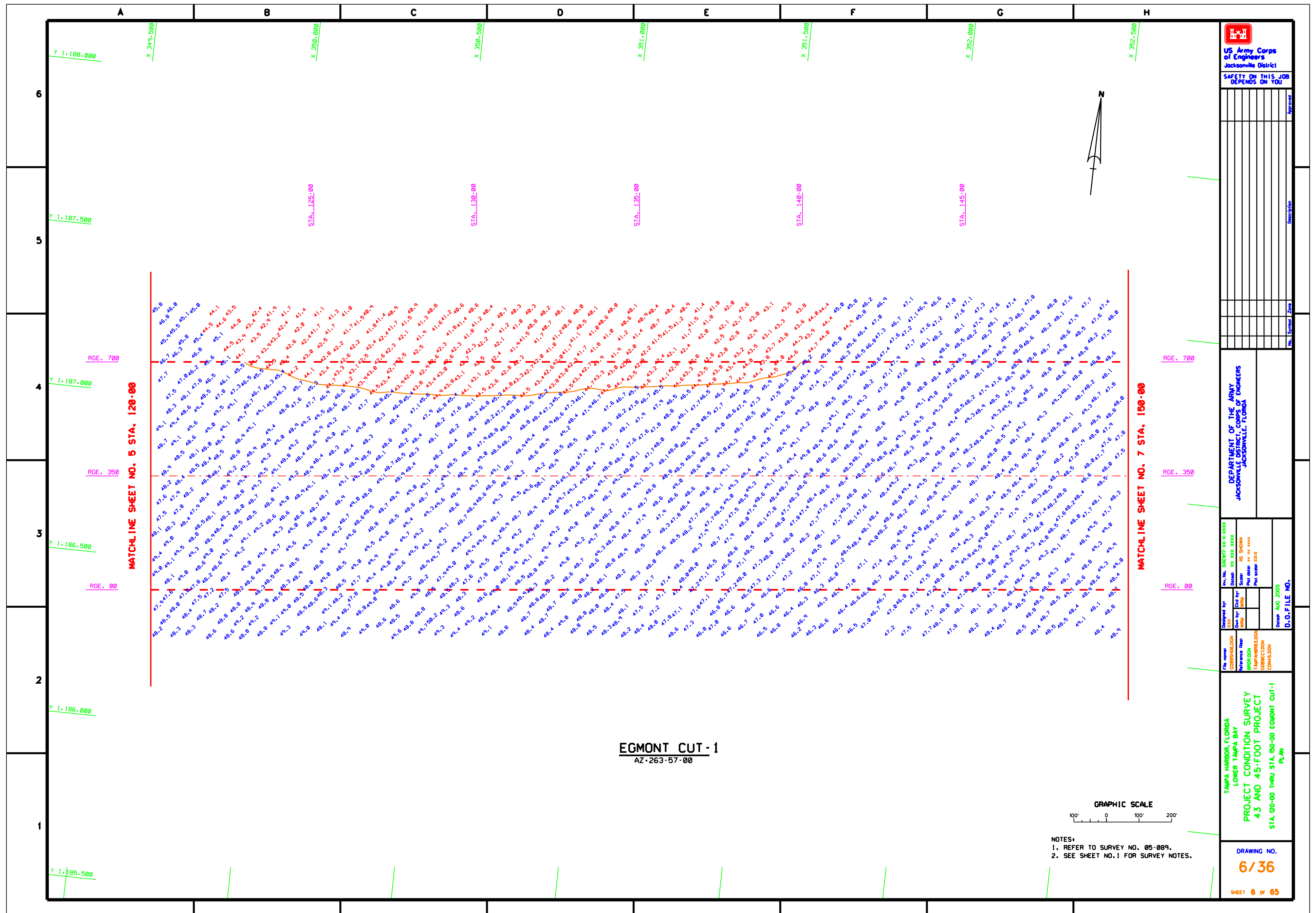
TAMPA HARBOR, FLORIDA
LOWER TAMPA BAY
PROJECT CONDITION SURVEY
43 AND 45-FOOT PROJECT
COVER, LOCATION AND INDEX
PLAN

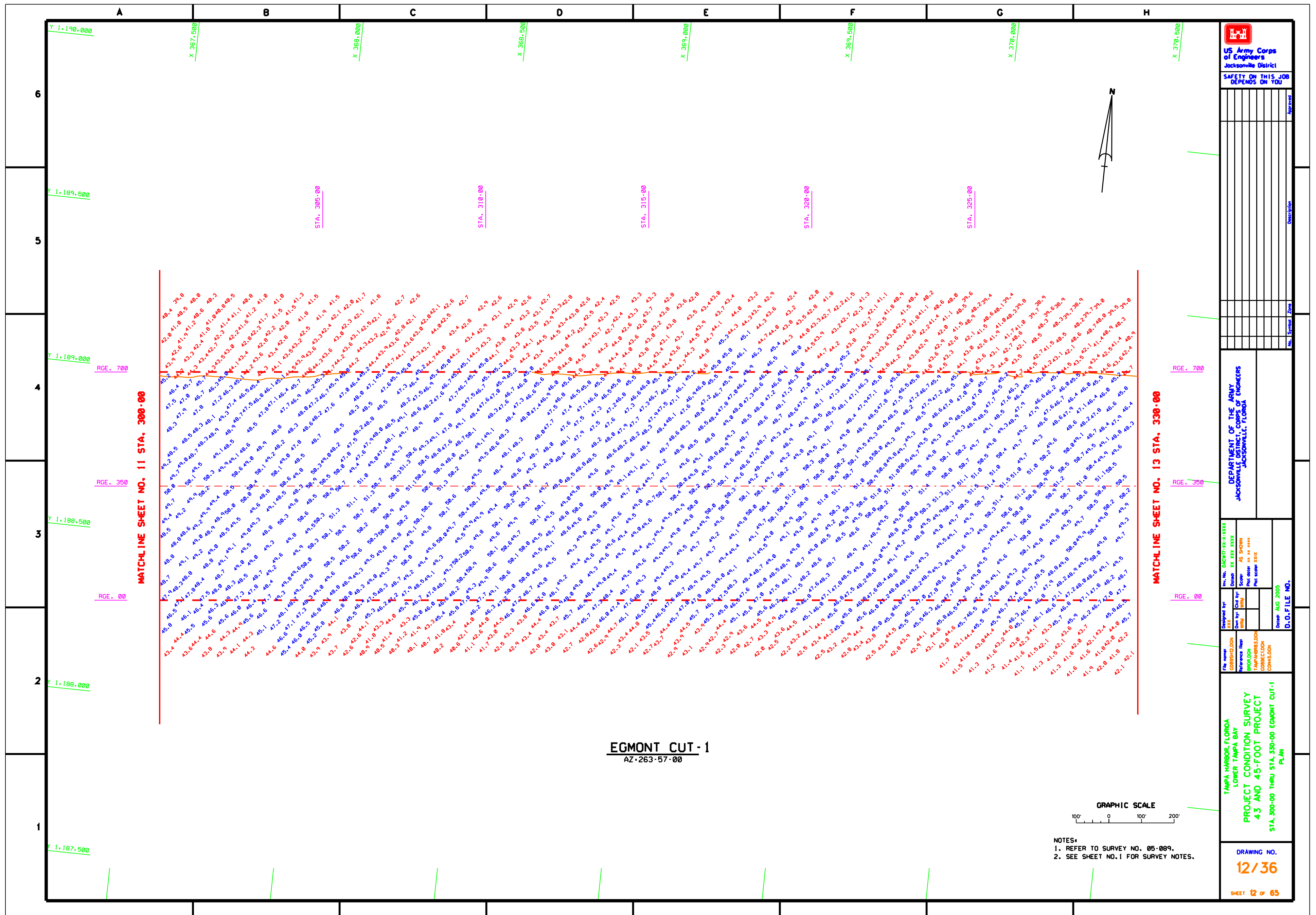
DRAWING NO.
1/36

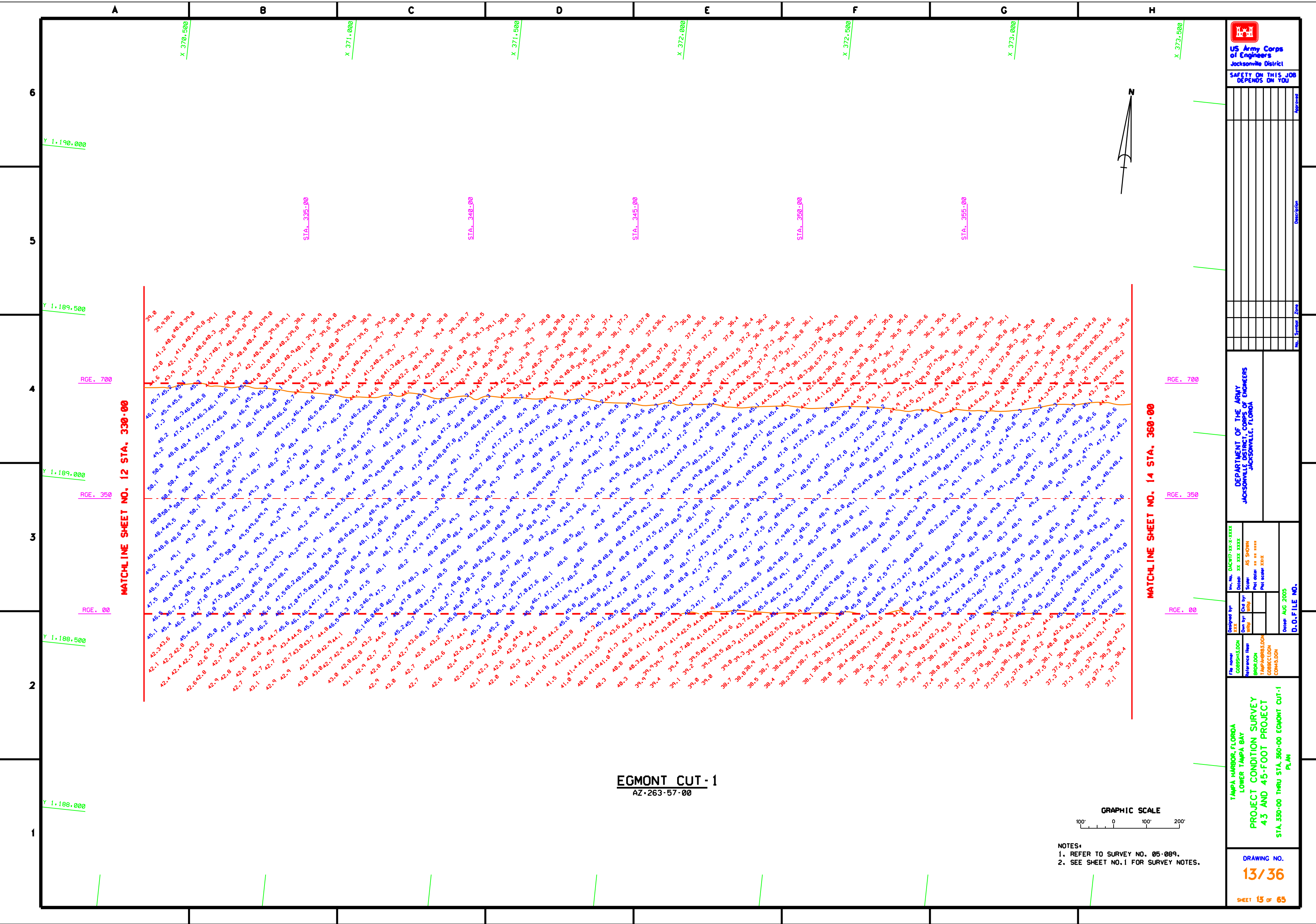
SHEET 1 OF 65



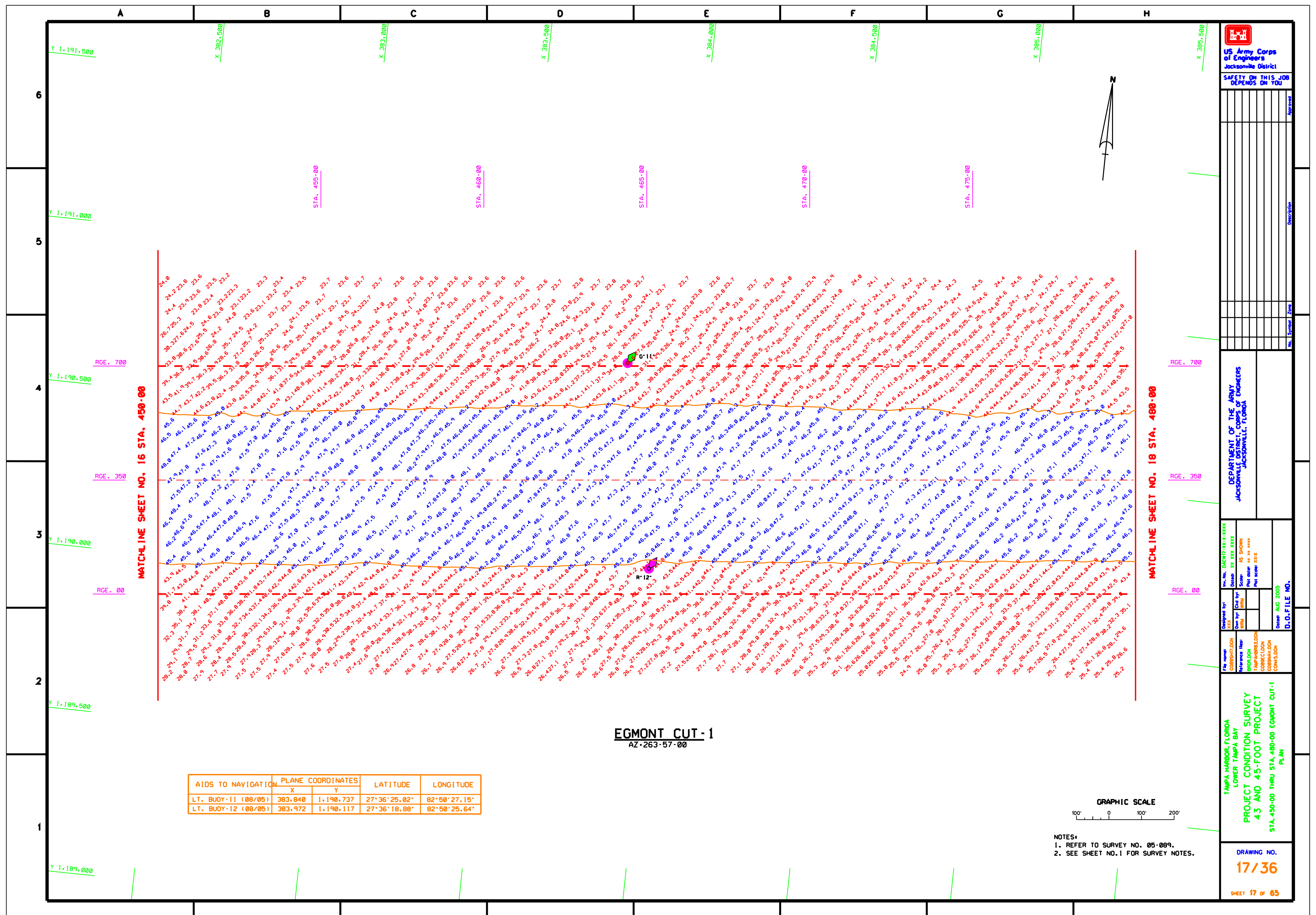
AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-3 (08/05)	347.456	1.186.911	27°35'44.52"	82°57'11.22"
LT. BUOY-4 (08/05)	347.456	1.186.230	27°35'37.78"	82°57'11.16"

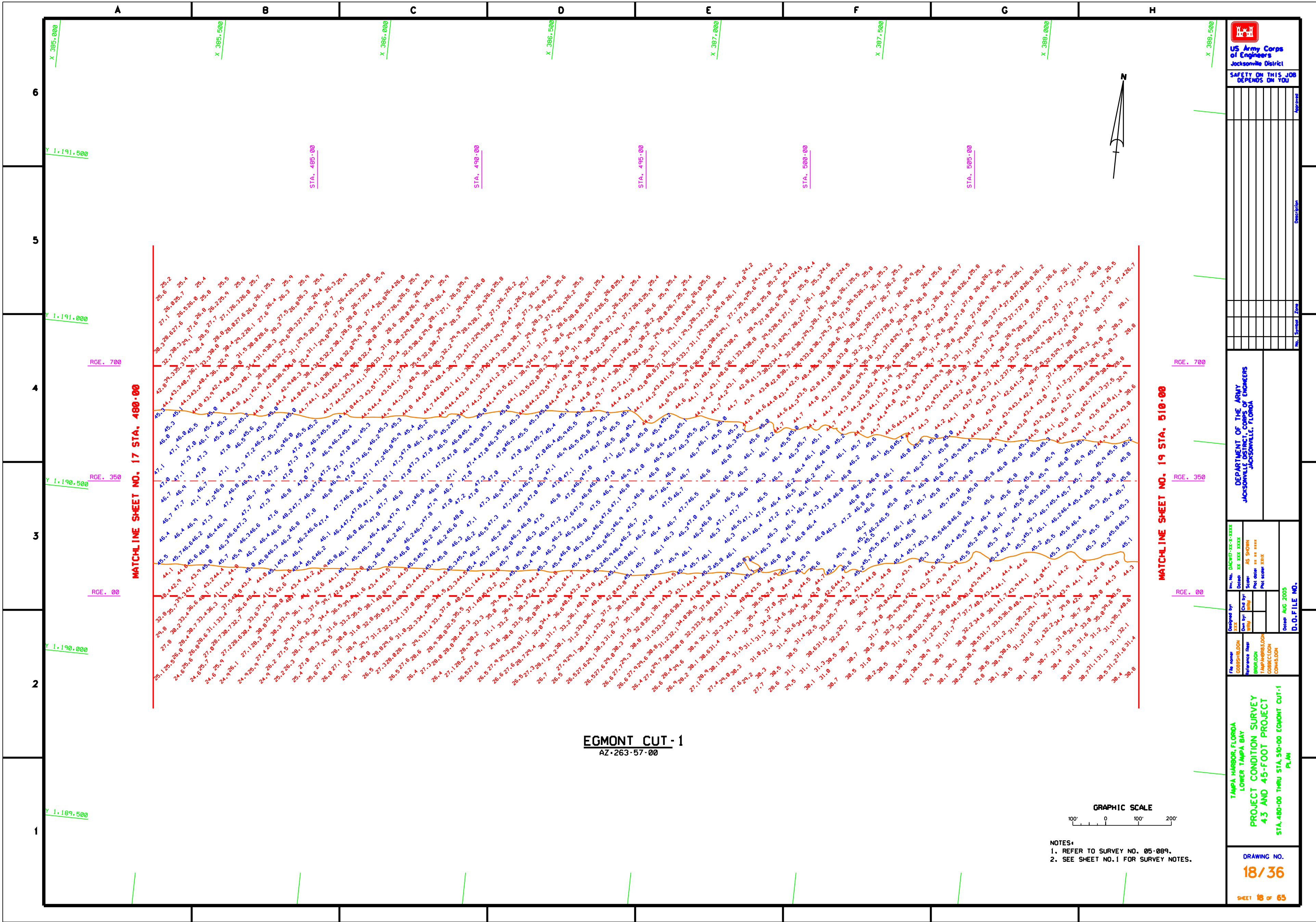


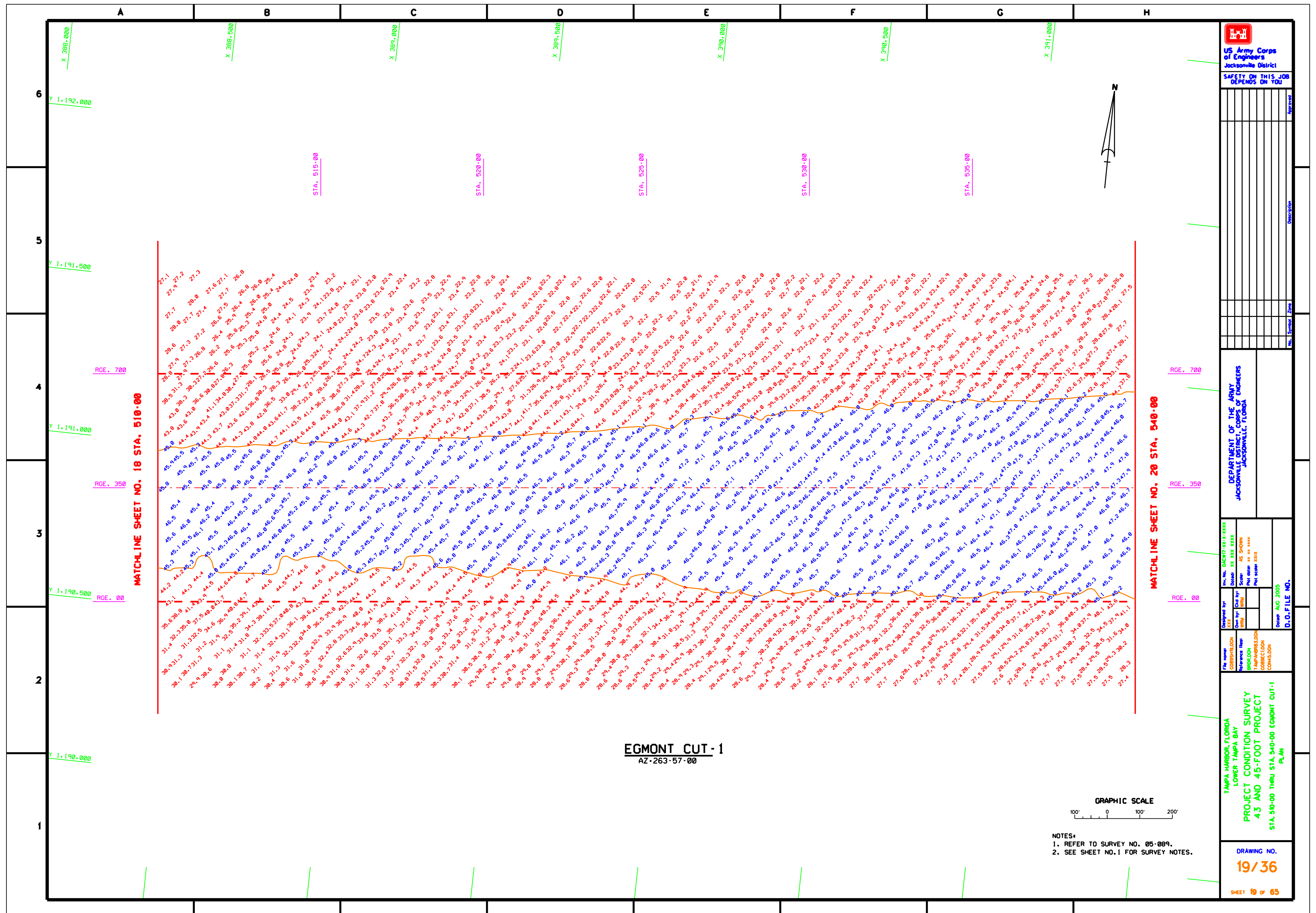


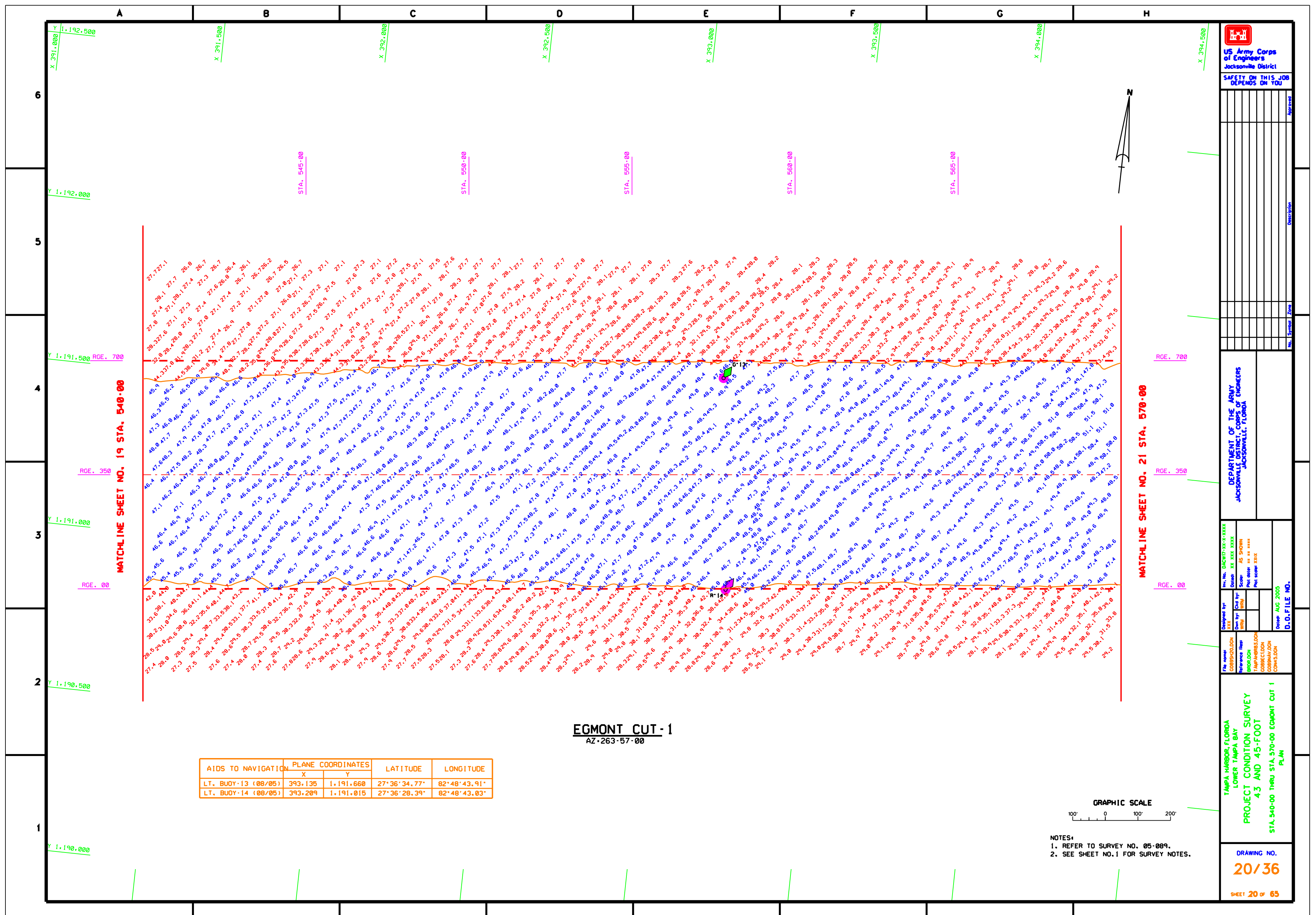












**US Army Corps
of Engineers**
Jacksonville District

**SAFETY ON THIS J
DEPENDS ON YOU**

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MY ENGINEERS

THE AR
RPS OF E
LORDA

NT OF
TRACT, CO
NVILLE, F

PARTNER
VILLE DISTRICT
JACKSONDE
JACKSON

XXXX		

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XXXX XXXX  
W7-XX-X-X-X
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Inv. No.	Dated:	Score:	Pict date:	Pict score:
DAU	XX	A	XX	XX

						AUG 2005
Old bys	Old bys WRM					

GN	Design XXX	Open by WRM			Date:
SE					
1,DCN					
1					
N					

File names:
G089SH20.0
Reference files:
BROR.DGN
TAMP.AHR8.3
G089EC1.0GN
G089NAV.DGN
CON45.DGN

Y CUT 1

DATA SURVEY REPORT

MR. FLORES
PAPA BAY
SITUATION :
45-FOOT
570-00 E

PA HARBOR
POWER TANK
COND
AND 4
RU STA. 5
CA

PROJECT 43

PRO
STA. 54

DRAWING NO.

20/36

SHEET 20 OF 63

